

computers & industrial engineering

An International Journal

**Volume Contents and Author Index
Volume 44, 2003**



PERGAMON

LIST OF CONTENTS

VOLUME 44

NUMBER 1

- | | | |
|---|------------|---|
| Jae Kook Lim, Joon Mook Lim,
Kazuho Yoshimoto, Kap Hwan Kim
and Teruo Takahashi | 1 | Designing guide-path networks for automated guided vehicle system by using the <i>Q</i> -learning technique |
| Richard F. Deckro and John E. Hebert | 19 | Modeling diminishing returns in project resource planning |
| M. A. Al-Fawzan and K. S. Al-Sultan | 35 | A tabu search based algorithm for minimizing the number of tool switches on a flexible machine |
| W. M. Chan, C. Y. Chan and W. H. Ip | 49 | A heuristic algorithm for machine assignment in cellular layout |
| Seyda Topaloglu and Irem Ozkarahan | 75 | Implicit optimal tour scheduling with flexible break assignments |
| Yi-Chih Hsieh | 91 | A linear approximation for redundant reliability problems with multiple component choices |
| S. Mondal and M. Maiti | 105 | Multi-item fuzzy EOQ models using genetic algorithm |
| K. M. Mohanasundaram, K. Natarajan,
G. Viswanathkumar, P. Radhakrishnan
and C. Rajendran | 119 | Scheduling rules for dynamic shops that manufacture multi-level jobs |
| S. Pugazhendhi, S. Thiagarajan,
C. Rajendran and N. Anantharaman | 133 | Performance enhancement by using non-permutation schedules in flowline-based manufacturing systems |
| Mingzhou Jin and S. David Wu | 159 | A new heuristic method for mixed model assembly line balancing problem |
| E. Ertugrul Karsak, Sevin Sozer
and S. Emre Alptekin | 171 | Product planning in quality function deployment using a combined analytic network process and goal programming approach |
| Suresh Kumar Goyal and Leopoldo
Eduardo Cárdenas-Barrón | 191 | Note on: An optimal batch size for a production system operating under periodic delivery policy |
| Ruhul A. Sarker and Lutfar R. Khan | 193 | A reply to "Note on: an optimal batch size for a production system operating under periodic delivery policy" |

NUMBER 2

Ibrahim H. Osman

**Jörg Zimmermann, Robin Höns
and Heinz Mühlenbein**

**Habib Youssef, Sadiq M. Sait
and Hussain Ali**

Peter Greistorfer

Hassan Ghaziri and Ibrahim H. Osman

**Kate A. Smith, David Abramson
and David Duke**

Martin Feldmann and Dirk Biskup

205 Focused issue on applied meta-heuristics

209 ENCON: an evolutionary algorithm for the antenna placement problem

227 Fuzzy simulated evolution algorithm for VLSI cell placement

249 A Tabu Scatter Search Metaheuristic for the Arc Routing Problem

267 A neural network algorithm for the traveling salesman problem with backhauls

283 Hopfield neural networks for timetabling: formulations, methods, and comparative results

307 Single-machine scheduling for minimizing earliness and tardiness penalties by meta-heuristic approaches

NUMBER 3

Hesham K. Alfares

**H. Pierreval, C. Caux, J. L. Paris
and F. Viguiet**

Zohar Laslo

**F. Zorriassatine, J. D. T. Tannock
and C. O'Brien**

Ling-Huey Su

**Nour El Houda Saadani, Alain Guinet
and Mohamed Moalla**

Shi-Jie (Gary) Chen and Li Lin

**Jih-Chang Hsieh, Pei-Chann Chang
and Lich-Chao Hsu**

Joseph Geunes

Manuel D. Rossetti and Gordon M. Clark

325 Flexible 4-day workweek scheduling with week-end work frequency constraints

339 Evolutionary approaches to the design and organization of manufacturing systems

365 Activity time-cost tradeoffs under time and cost chance constraints

385 Using novelty detection to identify abnormalities caused by mean shifts in bivariate processes

409 A hybrid two-stage flowshop with limited waiting time constraints

425 Three stage no-idle flow-shops

435 Decomposition of interdependent task group for concurrent engineering

461 Scheduling of drilling operations in printed circuit board factory

475 Solving large-scale requirements planning problems with component substitution options

493 Estimating operation times from machine center arrival and departure events

Gülser Köksal and Yahya Fathi

NUMBER 4

H. Yu, A. Reyes, S. Cang and S. Lloyd

H. Yu, A. Reyes, S. Cang and S. Lloyd

Jau-Chuan Ke

Kathleen L. McFadden

**Sherif M. Waly, Shihab S. Asfour
and Tarek M. Khalil**

X. F. Zha and S. Y. E. Lim

**Chen-Sin Lin, Chih-Hua Chen
and Dennis E. Kroll**

**Chang-Yu Hung, Robert T. Sumichrast
and Evelyn C. Brown**

K. K. Chan and T. A. Spedding

Chiu-Chi Wei and Chen-Mei Fuong Wang

515 Statistical tolerancing using designed experiments in a noisy environment

527 Combined Petri net modelling and AI based heuristic hybrid search for flexible manufacturing systems—part 1. Petri net modelling and heuristic search

545 Combined Petri net modelling and AI-based heuristic hybrid search for flexible manufacturing systems—part II. Heuristic hybrid search

567 The optimal control of an M/G/1 queueing system with server vacations, startup and breakdowns

581 Risk models for analyzing pilot-error at US airlines: a comparative safety study

595 Effects of window size and load on estimated myoelectric signal power spectrum

611 Intelligent design and planning of manual assembly workstations: A neuro-fuzzy approach

633 Integrated production-inventory models for imperfect production processes under inspection schedules

651 CPG_{EA}: a grouping genetic algorithm for material cutting plan generation

673 An integrated multidimensional process improvement methodology for manufacturing systems

695 Efficient approaches of linearization in project compression

I Volume Contents and Author Index for Volume 44

